



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

TITAN METALLURGY, L.L.C.  
10400 Capital Avenue  
Oak Park, MI 48237  
Steve Avery Phone: 248 543 3578  
E-mail: [testing@titanmetallurgy.com](mailto:testing@titanmetallurgy.com)

MECHANICAL

Valid To: November 30, 2025

Certificate Number: 2087.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on ferrous and non-ferrous metals:

| <u>Test</u>   | <u>Test Methods</u> |
|---|---------------------|
| Hardness  |                     |
| Rockwell (B, C)   | ASTM A370, E18      |
| Brinell (3000 kgf)  | ASTM A370, E10      |
| Jominy Hardenability  | ASTM A255           |
| Microhardness   |                     |
| Knoop (100g to 1kg HK)  | ASTM E384           |
| Vickers (100g to 1kg HV)  | ASTM E384           |
| Tensile, Elongation & Yield, Reduction of Area<br>(Ambient Temperature) | ASTM A370, E8/E8M   |
| Charpy Impact Testing   | ASTM E23            |
| Grain Size  | ASTM E112           |
| Microcleanliness  | ASTM E45, SAE J422  |
| Micro-Etching   | ASTM E407           |
| Macro Etching   | ASTM E381           |
| Case Depth  | SAE J423            |
| Decarburization   | ASTM E1077          |
| Cast Iron Micro-Evaluation  | ASTM A247           |
| Sample Preparation  | ASTM E3             |

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**Test**

Failure Analysis

Scanning Electron Microscope (SEM) /  
Energy Dispersive Spectroscopy (EDS)

**Chemical**

Optical Emission Spectroscopy (OES)

Carbon and Low-Alloy Steel  
(Al, C, Cr, Cu, Mn, Mo, Nb, Ni, P, S, Si, V)

Stainless Steel  
(C, Cr, Cu, Mn, Mo, Ni, P, S, Si)

Aluminum and Aluminum Alloys  
(Cr, Cu, Fe, Mg, Mn, Ni, Pb, Si, Sn, Ti, Zn)

**Test Methods**

ASM Handbook Volume 11

ASTM E1508

ASTM E415

ASTM E1086

ASTM E716, E1251





# Accredited Laboratory

A2LA has accredited

**TITAN METALLURGY, L.L.C**

*Oak Park, MI*

for technical competence in the field of

**Mechanical Testing**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 20<sup>th</sup> day of November 2023.

A blue ink signature of Mr. Trace McInturff, written in a cursive style.

Mr. Trace McInturff, Vice President, Accreditation Services  
For the Accreditation Council  
Certificate Number 2087.01  
Valid to November 30, 2025

*For the tests to which this accreditation applies, please refer to the laboratory's Mechanical Scope of Accreditation.*